

*(Final Amendment)*

AMENDMENTS**IN THE CLAIMS:**

Please cancel claims 2, 9 and 15.

1        1. (Currently Amended) A multiple wavelength output light source,  
2 comprising:

3              a laser device having a plurality of output wavelengths;

4              a demultiplexer optically coupled to the laser device, the demultiplexer for  
5 separating the plurality of output wavelengths; and

6              a plurality of modulators optically coupled to the demultiplexer, the  
7 modulators associated with and configured to modulate each wavelength, wherein the  
8 laser device, the plurality of modulators and the demultiplexer are fabricated on one } C 2  
9 substrate and comprise one module.

1        2. (Canceled)

1        3. (Original) The light source of claim 1, wherein the plurality of output  
2 wavelengths represents the output spectrum of the laser device.

1        4. (Original) The light source of claim 1, further comprising an optical  
2 filter configured to receive the plurality of output wavelengths and modify each  
3 wavelength to a predetermined profile.

1        5. (Original) The light source of claim 1, wherein the laser device is a  
2 Fabry-Perot laser.

1           6. (Original) The light source of claim 1, further comprising a combining  
2       device configured to combine each of the plurality of modulated wavelengths onto a  
3       single optical fiber.

1           7. (Original) The light source of claim 1, wherein the laser device has a  
2       spectral distribution including distinct peaks, each of the output wavelengths  
3       corresponding to a different one of the peaks.

1           8. (Currently Amended) A method for forming a broad spectrum  
2       modulated laser output, the method comprising:

3           providing a laser device having a plurality of output wavelengths;  
4           separating the plurality of output wavelengths; and  
5           modulating each of the plurality of output wavelengths; and  
6           forming the laser device and performing the modulating step and the } cl 9  
7           separating step on one substrate.

1           9. (Canceled)

1           10. (Original) The method of claim 8, wherein the plurality of output  
2       wavelengths represents the output spectrum of the laser device.

1           11. (Original) The method of claim 8, further comprising modifying each  
2       wavelength to a predetermined profile.

1           12. (Original) The method of claim 8, wherein the laser device is a Fabry-  
2       Perot laser.

1           13. (Original) The method of claim 8, further comprising combining each  
2       of the plurality of modulated output wavelengths onto a single optical fiber.

1           14. (Currently Amended) A method for forming a broad spectrum  
2       modulated laser output, the method comprising the steps of:

3           providing a Fabry-Perot laser device having a plurality of outputs, each output  
4       at a different spectral location;

5           separating the plurality of outputs; and

6           modulating each of the plurality of outputs with communication information  
7       resulting in a plurality of modulated outputs; and

8           forming the Fabry-Perot laser device and performing the modulating step and } cl 15  
9       the separating step on one substrate.

1           15. (Canceled)

1           16. (Original) The method of claim 14, wherein the plurality of output  
2       wavelengths represents the output spectrum of the laser device.

1           17. (Original) The method of claim 14, further comprising modifying each  
2       wavelength to a predetermined profile.

1           18. (Original) The method of claim 14, further comprising combining each  
2         of the plurality of modulated outputs onto a single optical fiber.

1           19. (Currently Amended) An optical system comprising:  
2             a laser that outputs plural wavelengths; and  
3             modulator means optically coupled to the laser, the modulator means for  
4             modulating each of the wavelengths independently, wherein the laser and the  
5             modulator means are fabricated on one substrate and comprise one module.

1           20. (Original) The apparatus of claim 19, further comprising separator  
2         means for spatially separating the plural wavelengths upstream of their modulation by  
3         the modulator means.

1           21. (Original) The apparatus of claim 20, further comprising combiner  
2         means for spatially combining the wavelengths as modulated by the modulator means.

1           22. (Original) The apparatus of claim 19, wherein the laser has a spectral  
2         distribution including distinct peaks, each of the wavelengths corresponding to a  
3         different one of the peaks.

1           23. (Currently Amended) An optical method comprising:  
2             operating a laser to provide an output characterized by plural wavelengths; and  
3             modulating the plural wavelengths independently; and  
4             forming the laser device and performing the modulating step on one substrate.

1           **24.** (Original) The method of claim 23, further comprising separating the  
2        plural wavelengths upstream of the modulating.

1           **25.** (Original) The method of claim 24, further comprising combining the  
2        wavelengths downstream of the modulating.

1           **26.** (Original) The method of claim 23, wherein the wavelengths  
2        correspond to distinct peaks in the spectral distribution of the output of the laser.